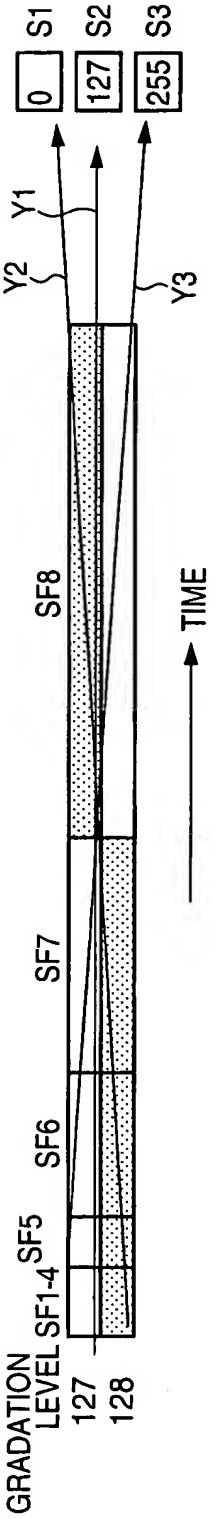

FIG. 1A

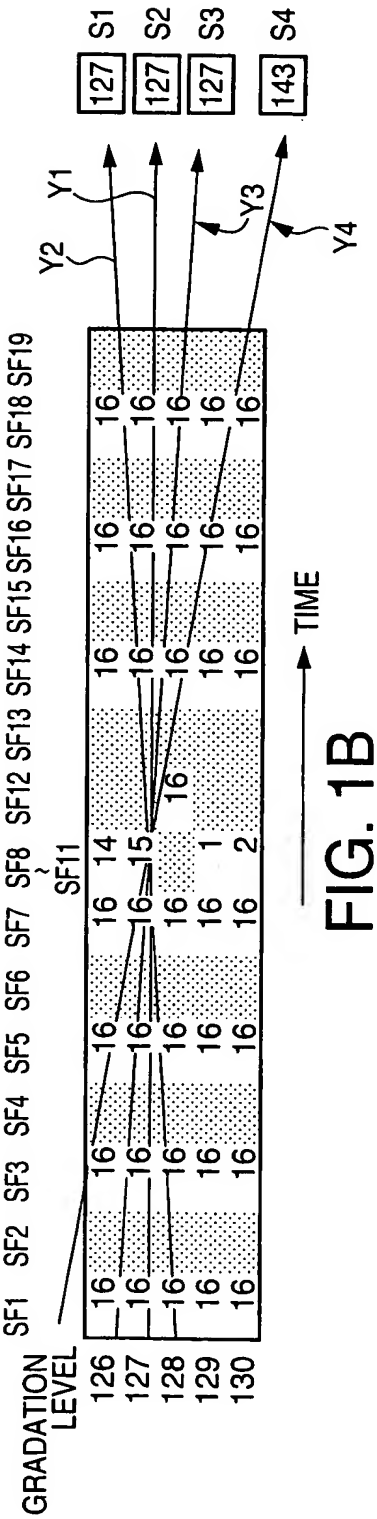

FIG. 1B

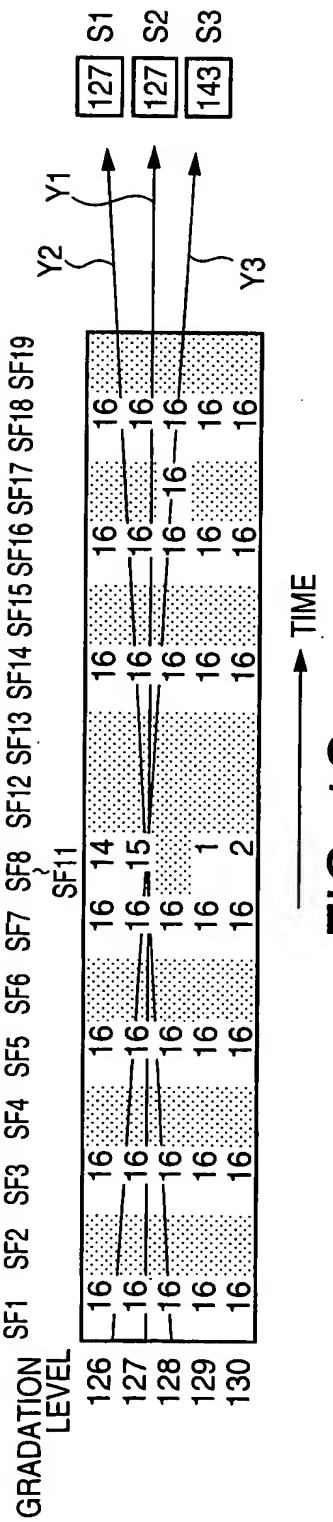

FIG. 1C

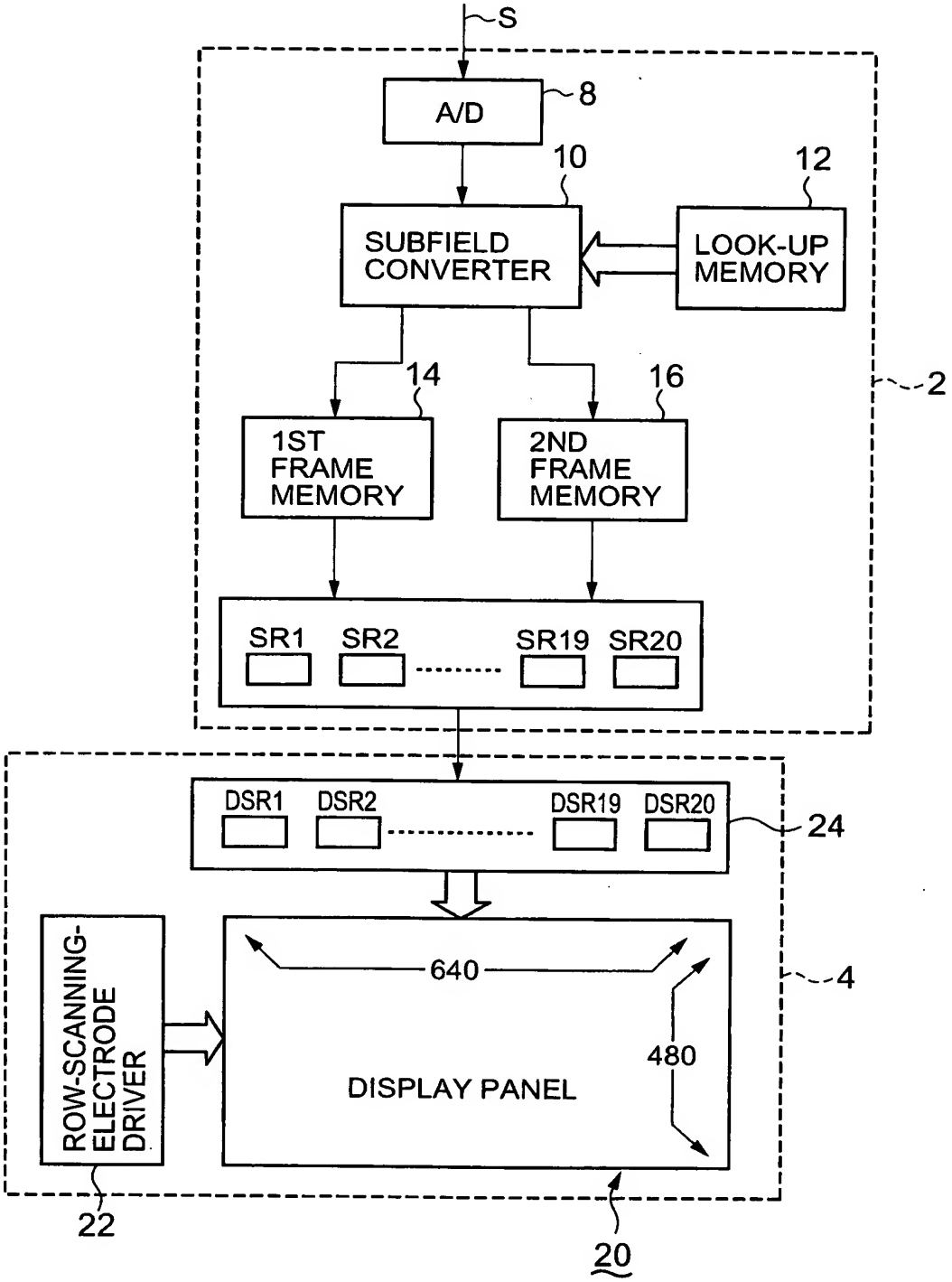
S
A/D
8
10
12
SUBFIELD CONVERTER
LOOK-UP MEMORY
14
16
2
1ST FRAME MEMORY
2ND FRAME MEMORY
SR1
SR2
SR19
SR20
DSR1
DSR2
DSR19
DSR20
24
ROW-SCANNING-ELECTRODE DRIVER
640
480
DISPLAY PANEL
4
22
20

FIG. 2

DIFFERENCE IN DISPLAY PERIOD (μsec)	30	30	20	20	20	20	20	15	15	15	15	10	10	10	10	5	5	5
SUBFIELD	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9	SF10	SF11	SF12	SF13	SF14	SF15	SF16	SF17	SF18	SF19
DISPLAY PERIOD (μsec)	30	60	90	110	130	150	170	190	205	220	235	250	260	270	280	290	295	300	305
GRADATION LEVEL																			
0																			
1									1										
2																			1
3				1															1
4									1										1
5														1					1
6																		1	1
10								1										1	1
20																	1	1	1
21	1																1	1	1
22		1															1	1	1
23			1														1	1	1
24				1													1	1	1
25					1												1	1	1
26						1											1	1	1
27							1										1	1	1
28								1									1	1	1
29									1								1	1	1
30										1							1	1	1
31											1						1	1	1
32												1					1	1	1
33													1				1	1	1
34														1			1	1	1
35															1		1	1	1
36																1	1	1	1
37	1															1	1	1	1
100													1	1	1	1	1	1	1
200						1	1	1	1	1	1	1	1	1	1	1	1	1	1
255	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

FIG. 3

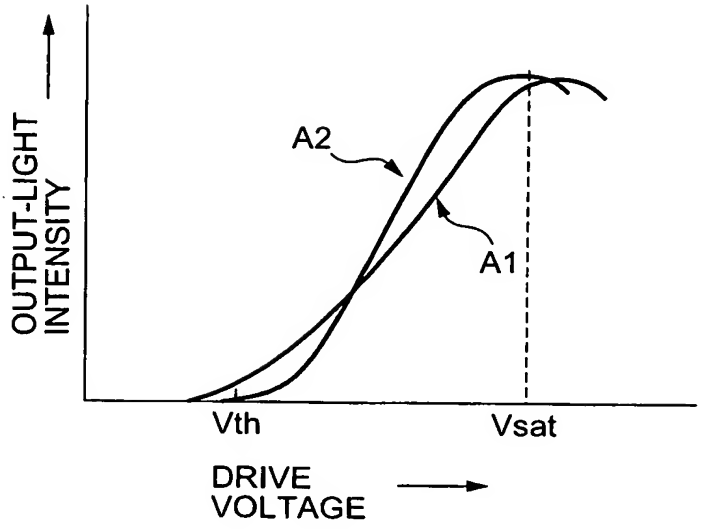

FIG. 4

DIFFERENCE IN DISPLAY PERIOD (μsec)	30	30	20	20	20	20	20	15	15	15	15	10	10	10	10	5	5	5
SUBFIELD	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9	SF10	SF11	SF12	SF13	SF14	SF15	SF16	SF17	SF18	SF19
DISPLAY PERIOD (μsec)	30	60	90	110	130	150	170	190	205	220	235	250	260	270	280	290	295	300	305
GRADATION LEVEL																			
0																			
1	1																		
2		1																	
3			1																
4				1															
5					1														
6						1													
7							1												
8								1											
9									1										
10										1									
11											1								
12												1							
13													1						
14														1					
15															1				
16																1			
17																	1		
18																		1	
19																			1
20	1																		1
21		1																	1
22			1																1
23				1															1
24					1														1
25						1													1
26							1												1
27								1											1
28									1										1
29										1									1
30											1								1
31												1							1
32													1						1
33														1					1
34															1				1
35	1														1				1
36																1			1
37	1															1			1
38																	1		1
39																		1	1
40	1																	1	1
100								1							1	1	1	1	1
200	1						1	1	1	1	1	1	1	1	1	1	1	1	1
255	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

FIG. 5

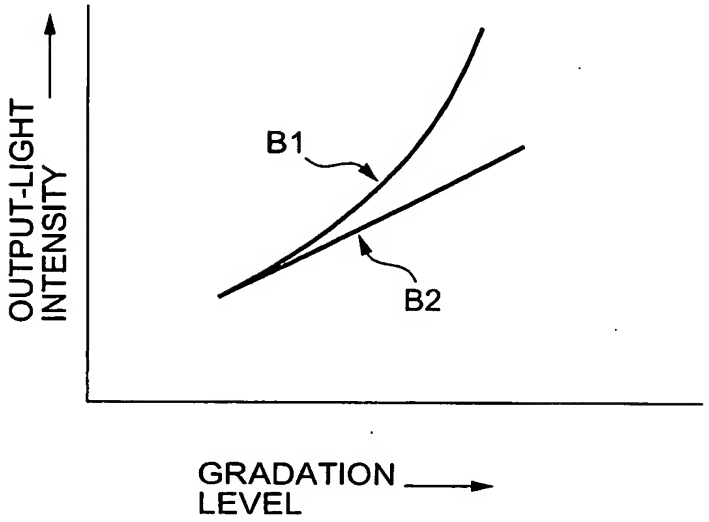
OUTPUT-LIGHT INTENSITY
B1
B2
GRADATION LEVEL

FIG. 6

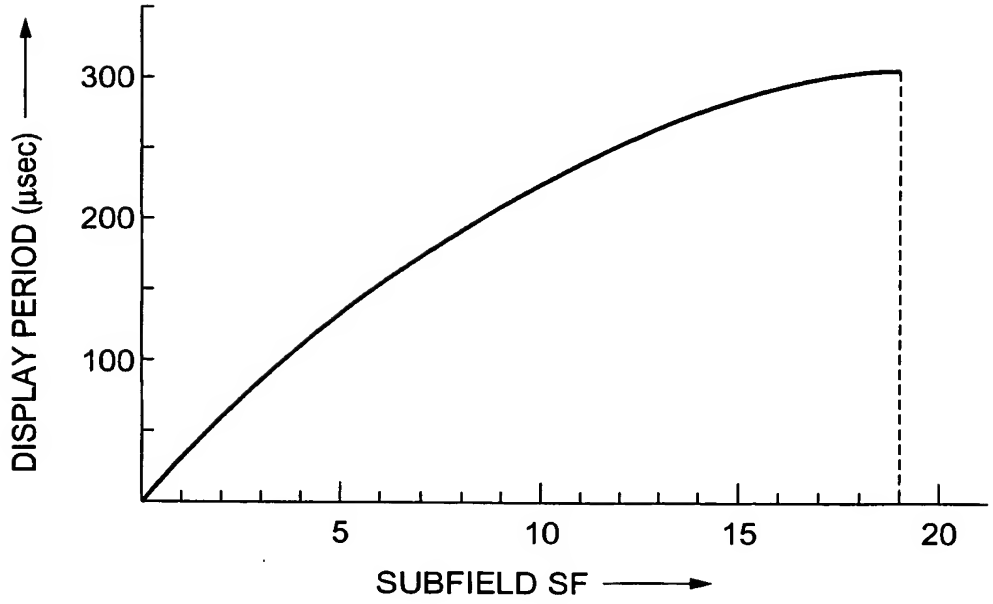
DISPLAY PERIOD (μsec)
300
200
100
5
10
15
20
SUBFIELD SF

FIG. 7

DIFFERENCE IN DISPLAY PERIOD (μsec)	20	20	20	20	20	20	20	20	20	20	20	20	20	10	20	20	20	20
SUBFIELD	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9	SF10	SF11	SF12	SF13	SF14	SF15	SF16	SF17	SF18	SF19
DISPLAY PERIOD (μsec)	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380
GRADATION LEVEL																			
0																			
1	1																		
2		1																	
3			1																
4				1															
5					1														
6						1													
7							1												
8								1											
9									1										
10										1									
11											1								
12												1							
13													1						
14														1					
15															1				
16																1			
17																	1		
18																		1	
19																			1
20	1																		1
21		1																	1
22			1																1
23				1															1
24					1														1
25						1													1
26							1												1
27								1											1
28									1										1
29										1									1
30											1								1
31												1							1
32													1						1
33														1					1
34															1				1
35																1			1
36																	1		1
37																		1	1
38	1																	1	1
39		1																1	1
40			1															1	1
100								1							1	1	1	1	1
200	1						1	1	1	1	1	1	1	1	1	1	1	1	1
255	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

FIG. 8

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	1ST GROUP										2ND GROUP								
DIFFERENCE IN DISPLAY PERIOD (μsec)	30	30	30	20	20	20	20	20	20	20	0	0	0	0	0	0	0	0	
SUBFIELD	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9	SF10	SF11	SF12	SF13	SF14	SF15	SF16	SF17	SF18	SF19
DISPLAY PERIOD (μsec)	30	60	90	120	140	160	180	200	220	240	260	260	260	260	260	260	260	260	260
GRADATION LEVEL																			
0																			
1	1																		
2		1																	
3			1																
4				1															
5					1														
6						1													
7							1												
8								1											
9									1										
10										1									
11											1								
12	1											1							
13		1											1						
14			1											1					
15				1											1				
16					1											1			
17						1											1		
18							1											1	
19								1											1
20									1										1
21										1									1
22											1								1
23	1											1							1
24		1											1						1
25			1											1					1
26				1											1				1
27					1											1			1
28						1											1		1
29							1											1	1
30	1						1											1	1
31								1										1	1
32	1							1										1	1
33									1									1	1
34									1									1	1
35										1								1	1
36										1								1	1
37											1							1	1
38	1											1						1	1
39		1											1					1	1
40			1											1				1	1
																		1	1
100											1	1	1	1	1	1	1	1	1
																		1	1
200	1						1	1	1	1	1	1	1	1	1	1	1	1	1
																		1	1
255	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

FIG. 9

	2ND GROUP						1ST GROUP							3RD GROUP					
SUBFIELD	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9	SF10	SF11	SF12	SF13	SF14	SF15	SF16	SF17	SF18	SF19
PISPLAY PERIOD (μsec)	305	300	295	290	280	270	220	60	150	30	180	90	220	270	280	290	295	300	305
GRADATION LEVEL																			
0										1									
1								1											
2												1							
3										1		1							
4									1										
5									1	1									
6											1								
7										1	1								
8													1						
9										1			1						
10								1					1						
11														1					
12															1				
13																1			
14																	1		
15																		1	
16										1								1	
17																			1
18										1									1
19								1											1
20												1							1
21										1		1							1
22									1										1
23									1	1									1
24								1	1										1
25								1	1	1									1
26								1											1
27							1			1									1
28							1												1
29							1	1											1
30						1													1
31					1														1
32				1															1
33			1																1
34		1																	1
35	1																		1
36	1									1									1
37	1							1											1
38	1											1							1
39	1									1		1							1
40	1								1										1
100	1	1										1					1	1	1
200	1	1	1	1	1					1					1	1	1	1	1
255	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

FIG. 10

	2ND GROUP						1ST GROUP							3RD GROUP					
SUBFIELD	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9	SF10	SF11	SF12	SF13	SF14	SF15	SF16	SF17	SF18	SF19
DISPLAY PERIOD (μsec)	290	290	290	290	290	290	220	60	150	30	180	90	220	290	290	290	290	290	290
GRADATION LEVEL																			
0										1									
1								1											
2												1							
3										1		1							
4									1										
5									1	1									
6											1								
7										1	1								
8													1						
9										1			1						
10								1					1						
11												1	1						
12														1					
13										1					1				
14								1								1			
15												1					1		
16										1		1						1	
17									1										1
18									1	1									1
19								1	1										1
20								1	1	1									1
21								1											1
22							1			1									1
23							1												1
24							1	1											1
25						1													1
26					1					1									1
27				1				1											1
28			1									1							1
29		1								1		1							1
30	1								1										1
31	1								1	1									1
32	1										1								1
33	1									1	1								1
34	1												1						1
35	1									1			1						1
36	1													1					1
37	1									1					1				1
38	1							1								1			1
39	1											1					1		1
40	1									1		1						1	1
100	1	1	1													1	1	1	1
200	1	1	1	1	1	1								1	1	1	1	1	1
255	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

FIG. 11

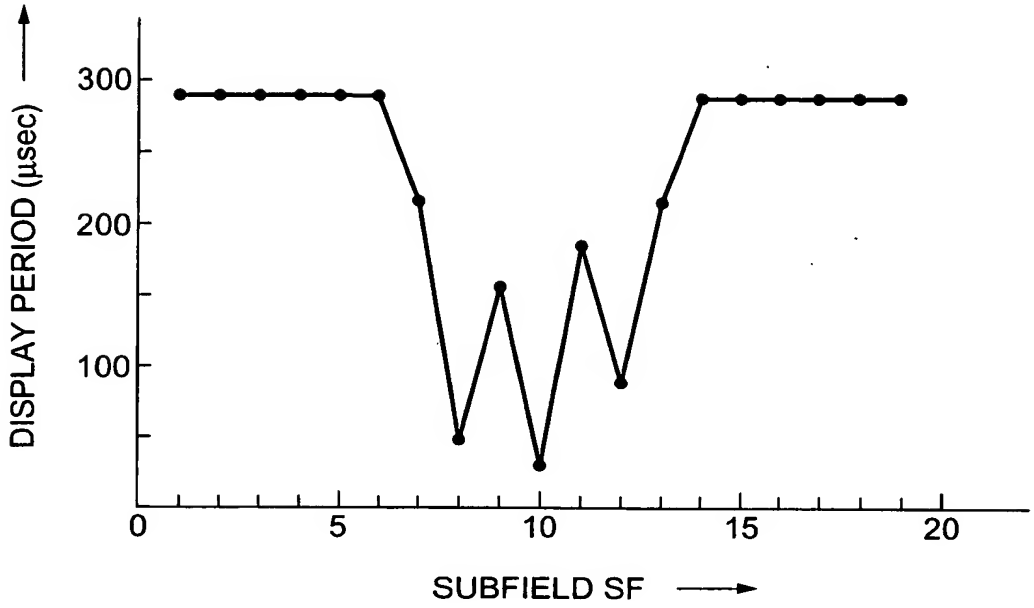
DISPLAY PERIOD (μsec)
300
200
100
0
5
10
15
20
SUBFIELD SF

FIG. 12

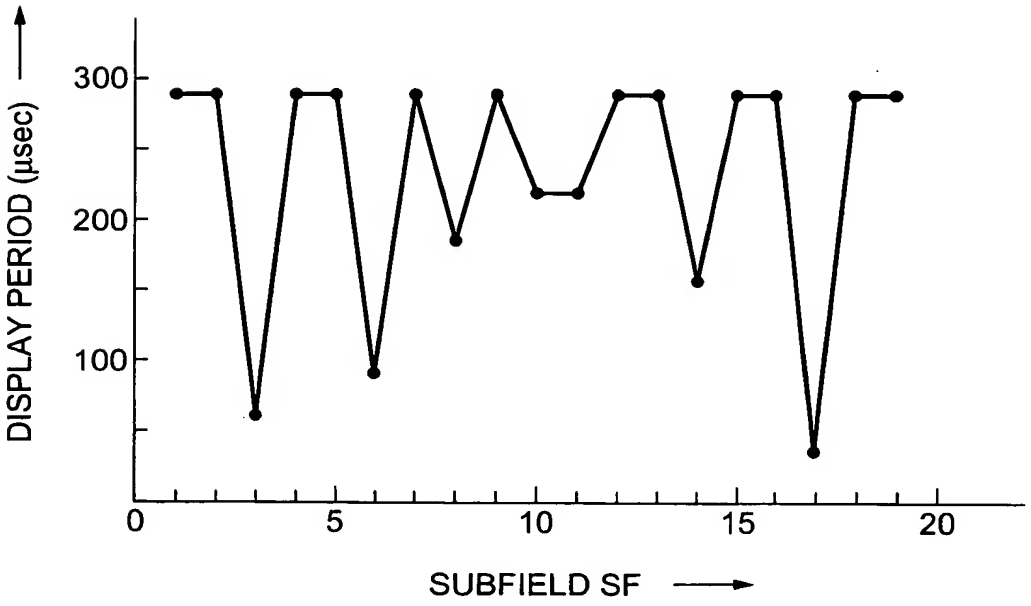
DISPLAY PERIOD (μsec)
300
200
100
0
5
10
15
20
SUBFIELD SF

FIG. 15

SUBFIELD	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9	SF10	SF11	SF12	SF13	SF14	SF15	SF16	SF17	SF18	SF19
PROVISIONAL SUBFIELD	SF1	SF2	SF8	SF3	SF4	SF12	SF5	SF11	SF6	SF7	SF13	SF14	SF15	SF9	SF16	SF17	SF10	SF18	SF19
DISPLAY PERIOD (μsec)	305	300	60	295	290	90	280	180	270	220	220	270	280	150	290	295	30	300	305
GRADATION LEVEL																			
0																	1		
1			1																
2						1													
3						1											1		
4														1					
5														1			1		
6								1											
7								1									1		
8											1								
9											1						1		
10			1								1								
11												1							
12													1						
13															1				
14																1			
15																		1	
16																	1	1	
17																			1
18																	1		1
19			1																1
20						1													1
21						1											1		1
22														1					1
23														1			1		1
24			1											1					1
25			1											1			1		1
26			1																1
27										1							1		1
28										1									1
29			1							1									1
30									1										1
31							1												1
32					1														1
33				1															1
34		1																	1
35	1																		1
36	1																1		1
37	1		1																1
38	1					1													1
39	1					1											1		1
40	1													1					1
100	1	1				1										1		1	1
200	1	1		1	1		1						1		1	1	1	1	1
255	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

FIG. 13

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SUBFIELD	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9	SF10	SF11	SF12	SF13	SF14	SF15	SF16	SF17	SF18	SF19
PROVISIONAL SUBFIELD	SF1	SF2	SF8	SF3	SF4	SF12	SF5	SF11	SF6	SF7	SF13	SF14	SF15	SF9	SF16	SF17	SF10	SF18	SF19
DISPLAY PERIOD (μsec)	290	290	60	290	290	90	290	180	290	220	220	290	290	150	290	290	30	290	290
GRADATION LEVEL																			
0																	1		
1			1																
2						1													
3						1											1		
4														1					
5														1			1		
6								1											
7								1									1		
8											1								
9											1						1		
10			1								1								
11						1					1								
12												1							
13													1				1		
14			1												1				
15						1										1			
16						1											1	1	
17														1					1
18														1			1		1
19			1											1					1
20			1											1			1		1
21			1																1
22										1							1		1
23										1									1
24			1							1									1
25									1										1
26							1										1		1
27			1		1														1
28				1		1													1
29		1				1											1		1
30	1													1					1
31	1													1			1		1
32	1							1											1
33	1							1									1		1
34	1										1								1
35	1										1						1		1
36	1											1							1
37	1												1				1		1
38	1		1												1				1
39	1					1										1			1
40	1					1											1	1	1
100	1	1		1											1	1		1	1
200	1	1		1	1		1		1			1	1		1	1		1	1
255	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

FIG. 14